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Anelastic and dielectric properties of polyether-polyamide copolymer PEBA^X studied by a thermally stimulated depolarisation current method

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Abstract. The analysis of some dielectric properties of poly-(ether block amide) PEBA^X having a hard-segment polyamide 12 ($M_n=4200$) and soft-segment polytetramethylene glycol ($M_n=2032$) has been done by a thermally stimulated depolarisation current method. The relaxation peaks resulting from molecular motions are similar to those observed in pure homopolymers. The mechanical properties of PEBA^X depend primarily on the hard-segment contents. The domain morphology is affected by thermal treatment. The existence of separate glass transition peaks representative of PTMG and PA12 in PEBA^X has been confirmed by a compensation law.

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